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## NOTICE OF ALLOWANCE AND FEE(S) DUE

59735 7590 03/28/2008

LEI CHEN  
10411 LAUREL HILL COVE  
AUSTIN, TX 78730

EXAMINER

DASGUPTA, SOUMYA

ART UNIT

PAPER NUMBER

2176

DATE MAILED: 03/28/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/712,771

11/12/2003

Yuval Gilboa

017900-003810US

7406

TITLE OF INVENTION: MODELING SYSTEM FOR GRAPHIC USER INTERFACE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

59735 7590 03/28/2008

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10411 LAUREL HILL COVE  
AUSTIN, TX 78730

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,771	11/12/2003	Yuval Gilboa	017900-003810US	7406

TITLE OF INVENTION: MODELING SYSTEM FOR GRAPHIC USER INTERFACE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
DASGUPTA, SOUMYA	2176	715-762000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,771	11/12/2003	Yuval Gilboa	017900-003810US	7406
59735	7590	03/28/2008	EXAMINER	
LEI CHEN 10411 LAUREL HILL COVE AUSTIN, TX 78730			DASGUPTA, SOUMYA	
			ART UNIT	PAPER NUMBER
			2176	
DATE MAILED: 03/28/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 765 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 765 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

**Notice of Allowability**

Application No.

10/712,771

Applicant(s)

GILBOA, YUVAL

Examiner

Art Unit

SOUMYA DASGUPTA

2176

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Applicant's Response dated on Feb 26, 2008.
2. ☒ The allowed claim(s) is/are 1-10,12-16,18,21-24,26-28 and 30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date ____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date ____     | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other ____.   |

/Doug Hutton/  
Supervisory Patent Examiner  
Technology Center 2100

***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Chad Walsh on 3/17/2008.

The application has been amended as follows:

*In the claims:*

- Amend claim 30 as follows:

30. (Currently amended) A computer system, comprising:

applications provided on a server system coupled to a client system; and

a computer readable medium including:

code for displaying a first business function component selected by a first user on a first display area of the client system, the first business function component being associated with first application logic to access one or more business applications provided in a server system;

code for displaying a second business function component selected by the first user on the first display area of the client system, the second business

function component being associated with second application logic to access one or more business applications provided in the server system;

code for forming a behavioral relationship between the first and second business function components, wherein a visual representation of the user interface is created based on the displaying steps and the forming step; and

code for generating a canonic representation of the visual representation;  
and

code for generating a first and second executable user interface code from ~~the displaying steps and the forming step~~ the canonic representation, the first and second executable user interface code being operable to access the first and second applications provided in the server system to retrieve desired data, wherein the first executable user interface code is compatible with a first platform and the second executable user interface code is compatible with a second platform that is different from the first platform, and wherein the first executable user interface code is generated by a first platform-specific code generator and the second executable user interface code is generated by a second platform-specific code generator.

***Allowable Subject Matter***

Claims 1-10, 12-16, 18, 21-24, 26-28 and 30 are allowed.

The following is an examiner's statement of reasons for allowance:

**Claims 1 and 9:**

The prior art fails to disclose or suggest the combination of limitations recited in Claims 1 and 9. More specifically, the prior art fails to disclose or suggest a user interface configured to use in a client-server environment that:

- provides an editor for designing a visual representation of a user interface,
  - wherein the editor provides a workspace and a task panel to be displayed on a display device on a client system
  - the workspace being provided to design the visual representation
  - the task panel providing a plurality of elements for use in designing the visual representation
  - one or more elements being associated with a server system remotely located from the client system;
- selecting a first actor and a second actor from the task panel, the first actor and second actors being a data source object that is one of the elements and includes application logic needed to access application layer provided in the server system;
- inserting the first and second actors into the workspace and diagrammatically defining a behavioral relationship between the first and second actors;
- generating a canonic representation of said visual representation;
- generating a first and second executable user interface code from the canonic representation,
  - the first and second executable user interface code being operable to access the first and second applications provided in the server system to retrieve desired data,

- wherein the first executable user interface code is compatible with a first platform and the second executable user interface code is compatible with a second platform that is different from the first platform,
- and wherein the first executable user interface code is generated by a first platform-specific code generator and the second executable user interface code is generated by a second platform-specific code generator.

The examiner notes that these features of the windows management system are illustrated in Figures 2, 3A, and 3B and described in detail on Pages 10-14 of the Specification in the present application.

**Claims 10, 24, 28 and 30:**

The prior art fails to disclose or suggest the combination of limitations recited in Claims 10, 24, 28 and 30. More specifically, the prior art fails to disclose or suggest generating a user interface comprising a plurality of computers coupled in a network that:

- displays first and second business functions components selected by a user on a first display area on a front-end system
- the first and second business function components being associated with the their respective application logic to access the respective business application provided in the server system,
- forming a behavioral relationship between the first and second business function components;
- creating a visual representation of the user interface based on the displaying steps and the forming step;
- generating a canonic representation of said visual representation;
- generating a first and second executable user interface code from the canonic representation,



- the first and second executable user interface code being operable to access the first and second applications provided in the server system to retrieve desired data,
- wherein the first executable user interface code is compatible with a first platform and the second executable user interface code is compatible with a second platform that is different from the first platform,
- and wherein the first executable user interface code is generated by a first platform-specific code generator and the second executable user interface code is generated by a second platform-specific code generator.

The examiner notes that these features of the windows management system are illustrated in Figures 2, 3A, 3B, 10A, 10B, 11A, and 11B and described in detail on Pages 10-14 and 25-30 of the Specification in the present application.

Regarding Claims 24 and 30, the examiner interprets the recited “*computer system*” to include the following hardware components:

- a computer and a display;
- a computer connected to an ITV; and
- a PDA,

as indicated in Figure 1 of the Drawings. The recited “*computer system*” and its associated modules are controlled by, and displayed using, the hardware components of the system, as indicated in Figures 1-2 of the Drawings. Accordingly, Claims 24 and 30 recite statutory subject matter, as defined in 35 U.S.C. 101.

Regarding Claim 28, the examiner interprets the recited “*computer readable medium*” to be a hardware component, since the Specification of the present application indicates that the present invention includes storage, networking and server hardware (see Page 9, Lines 8-9). Additionally, the disclosure of the present invention gives no indication that the recited “*computer readable medium*” includes signals, carrier waves or any type

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of transmission media. Accordingly, Claim 28 recites statutory subject matter, as defined in 35 U.S.C. 101.

**Claims 2-8:**

These claims incorporate the allowable subject matter of Claim 1 and are thus allowable.

**Claims 12-16, 18, and 21-23:**

These claims incorporate the allowable subject matter of Claim 10 and are thus allowable.

**Claims 26-27:**

These claims incorporate the allowable subject matter of Claim 24 and are thus allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SOUMYA DASGUPTA whose telephone number is (571)272-7432. The examiner can normally be reached on M-Th 9am-7pm, F 9am-1pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SD

*/Doug Hutton/*  
Doug Hutton  
Supervisory Primary Examiner  
Technology Center 2100